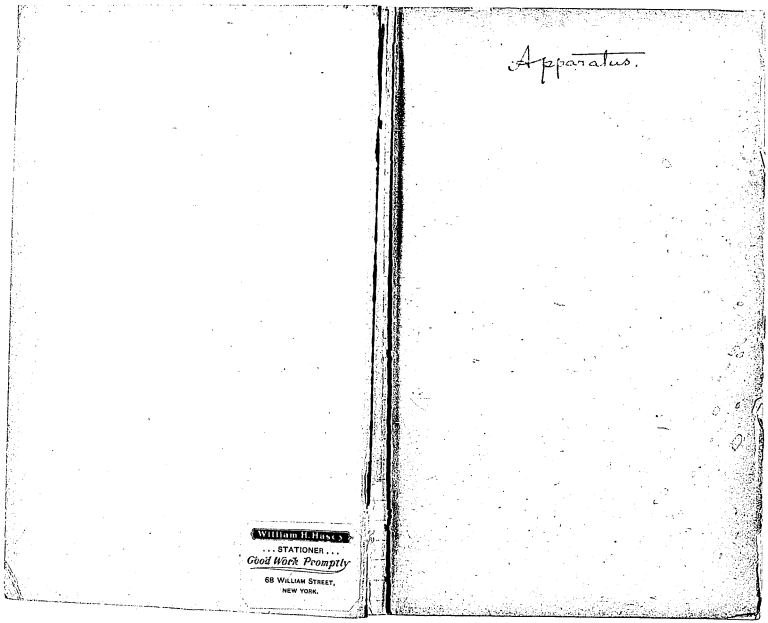
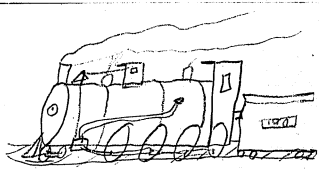
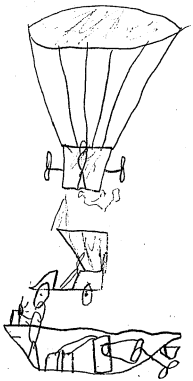
Notebook, N-08-00-00.3

This undated notebook was probably used by Edison in 1907 or 1908, but it may have been used as late as 1910. The book contains notes and drawings regarding continuous-process belting, possibly related to the manufacturing process used by the Edison Portland Cement Co. Over half of the book consists of miscellaneous notes and drawings, probably by Edison's youngest son, Theodore. The pages are unnumbered. Approximately 30 pages have been used.


Apparatus.
William H. Rease
...STATIONER...
Good Work Promptly
68 William Street,
New York.





her - - - - 12
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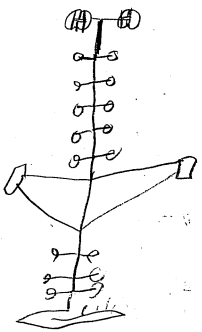

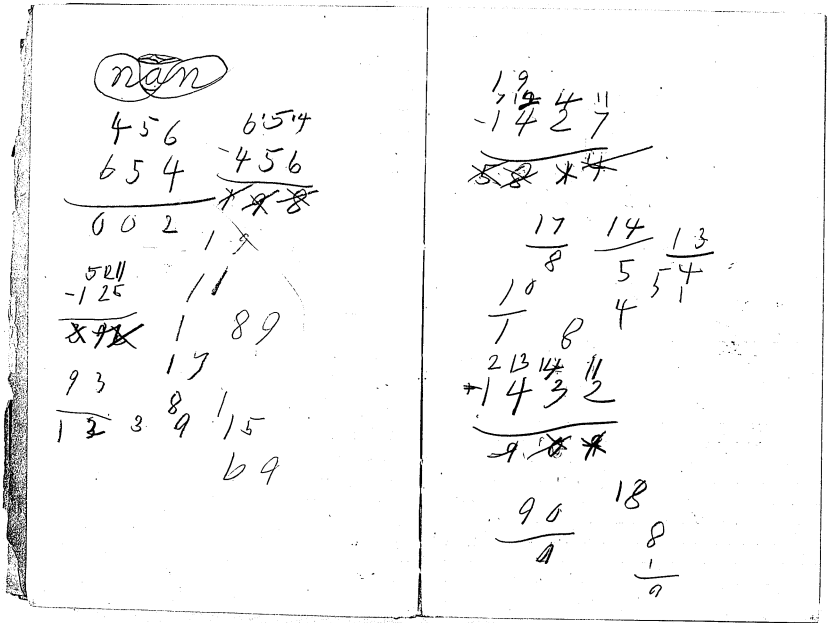
nam
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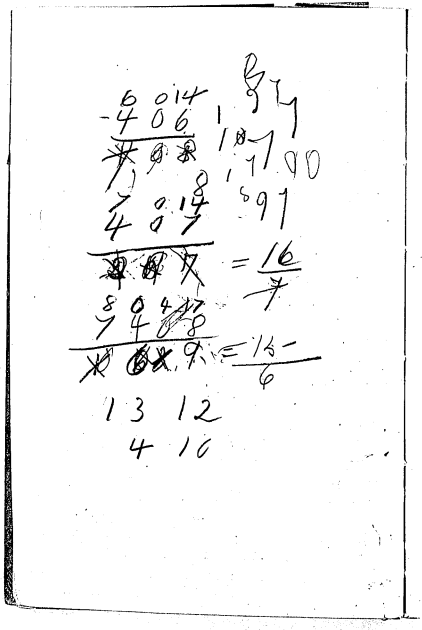
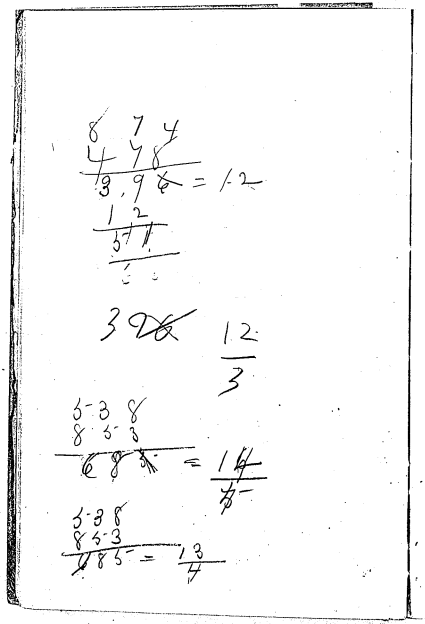
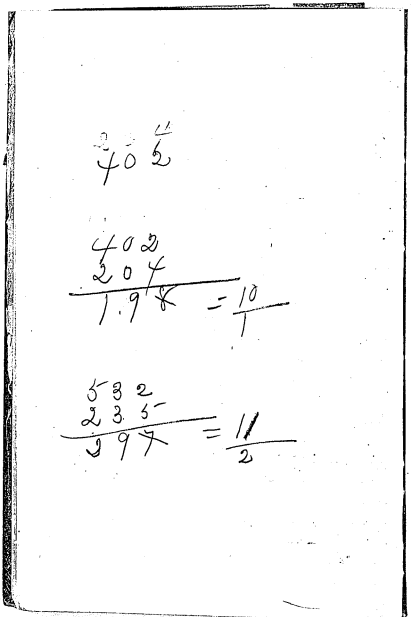
+1432
96
18
8
1







1 2 3 4 5 6 7 9

1 2 3 4 5 6 7 9

1 1 1 1 1 1 1 1

10 11 12 13 14 15 16 17

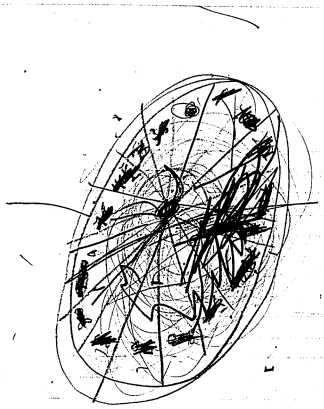
18 19

1 9 3 4 5 6 7 8 9

10-5 = 5

7
500
4
122
900
836
102
21

6
50
1000
300
45
12
25



7

1000
1000
100
1000
1000
1000
100

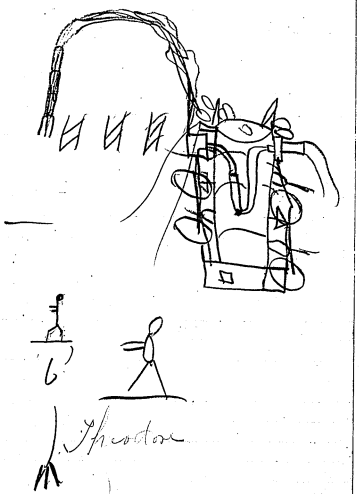
6

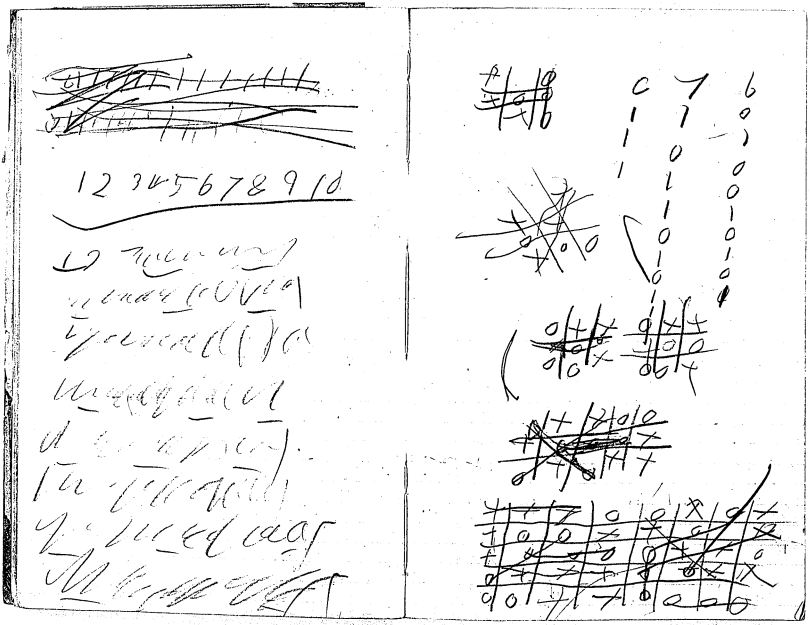
1000
1000
1000

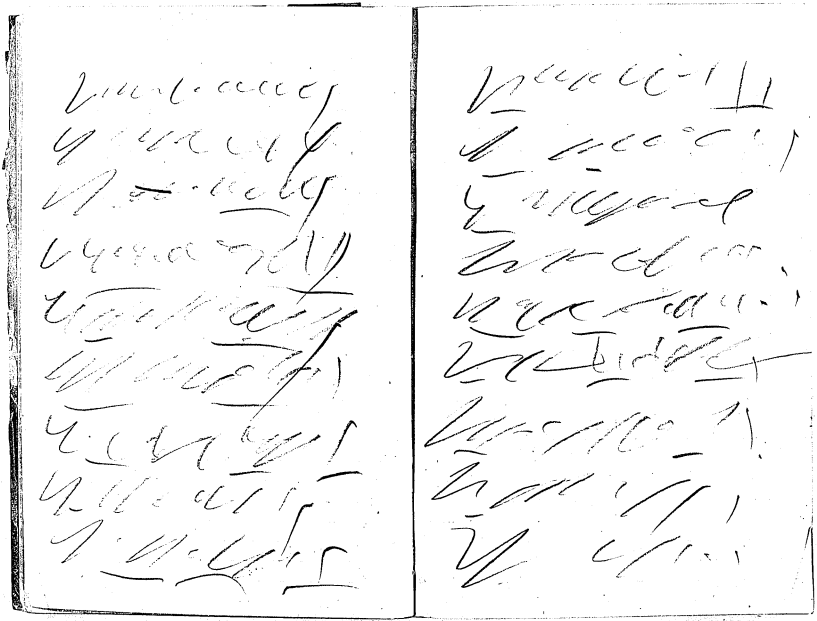
1 2 3 the cat
Caught a flee.
The flee died the
Cat cried 1 2 3.

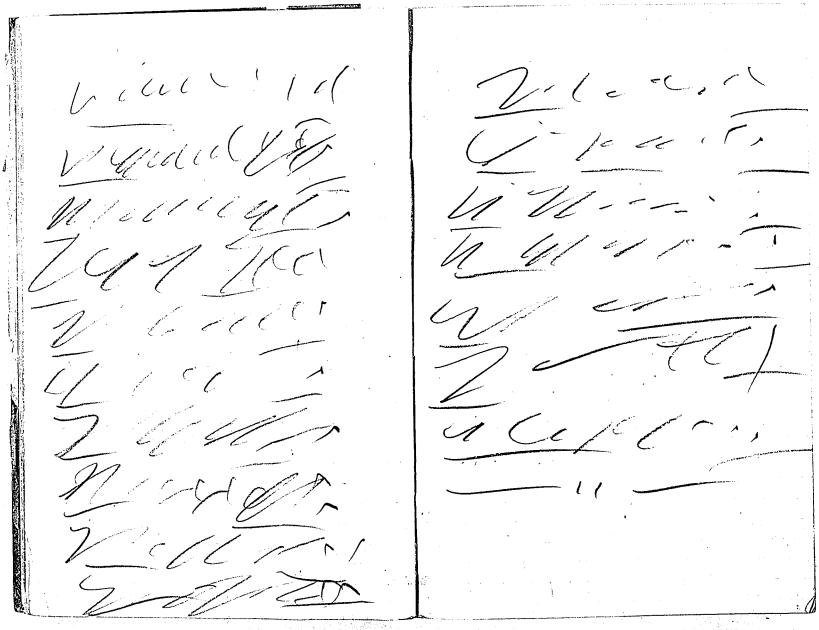
2 3 for yourself

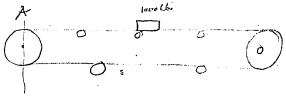
$$\begin{array}{r} 450 \\ +734 \\ \hline 924 \\ +624 \\ -534 \\ \hline 350 \end{array}$$









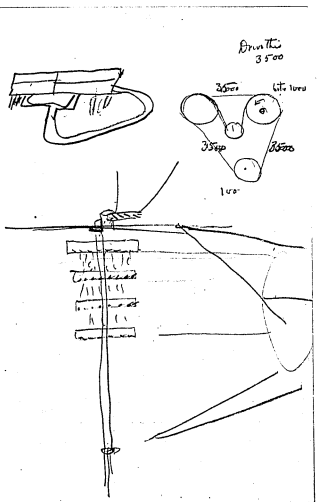


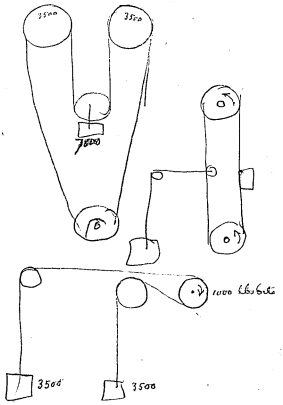
1000 lbs - friction $\frac{1}{10}$ 100 lbs adhesion on belt
~~by belt on pulley 175 = 225 lbs.~~

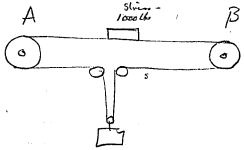
35 | 1000 (28.5 | 350
105
250
245
5

A Driven
Slacks on bottom 350 lbs - adds top -
Total adhesion on belt for bite 350 lbs
Extra pull on top 100 — Total 450 lbs
on top 350 bottom —

A + B driven — 100 lbs pull - adhesion pull necessary
/ for A - 175 - adhesion pull for other pulley
175 —







Bite required A 3500 — B 3500 —

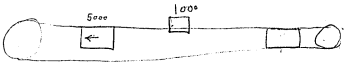
total Strain 3500 — for bite —— Weight 7000

Drive A —— Stress Top 45000 —
bottom 3500

Drive A + B — Stress cut 1000

Stress for bite on A 1750 on B 1750 —

Total 3500 on cut —



~~Stress on Belt, 1750 lbs at A,~~
~~+ through the belt everywhere~~

If driven at A. It requires a pressure of 1750 lbs stress throughout the whole belt causing them way no friction on Pulleys or head or tail

This would produce a pressure on A of 3500 lbs. + give bite enough 3.5 to 1 to drive. This pressure is the same on B but is not utilized — + is a necessary evil

Now if we drive both thru the system for traction in the whole belt system is reduced from 1750 throughout to 875 lbs

This gives 1750 strain on A + 1750 strain on B - a total of 3500 lbs pressure when reaching to drive

It is the unavoidability of the ~~necessary~~ stress on the tail pulley due to the stress on the head pulley that causes Excess of stress.